 Mercedes-Benz	<b>US</b>	<b>MY 2013</b>	<b>Application for Certification</b>	<b>Issue Date</b>	<b>Rev Date</b>	<b>DMBXV03.0U2B</b>
		<b>Part 1</b>	<b>Specific Sections</b>	Aug-20-12		Page: 1



Mercedes-Benz

## Application for Certification – Part 1 2013 Model Year

### Specific Sections

#### Test Group DMBXV03.0U2B

**Durability Group:** DMBXDPDNNPP1

**Evaporative Family:** n/a

**EPA Summary Sheet No.:** CSI-DMBXV03.0U2B

**Durability Group Description:** Diesel Cycle - Four Stroke - water cooled –  
piston-diesel – direct injection  
Pt Oxidation Catalyst (OC)  
Diesel Particulate Filter (DPF)  
Selective Catalytic Reduction (SCR) Catalyst

**Test Group Description(s):** 3.0 ltr. V6


**Applicable Standards:** Federal state: Tier 2 (bin 5)  
Calif: LEV II (ULEV)

**Vehicle(s) Covered:** E350 BLUETEC (LDV/PC)

**Vehicles Tested:** Exhaust: W212DE30TC – Z0016  
Evap: n/a

### EPA Response Requested By:

Brian Fitzgerald, 734.997.2002

	<b>US</b>	<b>MY 2013</b>	<b>Application for Certification</b>	Issue Date	Rev Date	<b>DMBXV03.0U2B</b>
		<b>Part 1</b>	<b>Table of Contents &amp; Revisions</b>	Aug-20-12		Page: 2

## Table of Contents & Revisions

### Table of Contents:

Specific Sections .....	1
Table of Contents & Revisions .....	2
S-01: Correspondence .....	2
S-02: Durability Group Description.....	3
S-03: Evaporative/Refueling Family Description.....	3
S-04: Durability Procedure Description .....	3
S-05: Test Group Description .....	3
S-06: Test Vehicle Description .....	3
S-07: Test Results .....	4
S-08: Statements .....	20
S-09: OBD-System Information.....	20
S-10: Alternate Fuel (if applicable).....	20
S-11: List of AECD.....	20
S-12: Identification and Description of certified vehicles .....	20
S-13: Projected US vehicle sales .....	20
S-14: Request for Certificate .....	21
S-14-01: Request for Certificate .....	21
S-14-02: OBD approval.....	21
S-14-03: Fee filing form .....	22
S-14-04: Approval Letters low ash oil.....	23
S-15: HEV-specific data (if applicable).....	24
S-16: Confidential data .....	25
S-16-01: OBD-approval .....	25
S-16-02: AAF .....	28
S-16-03: preconditioning procedure for emission testing.....	29
S-16-04: Description of AECDs .....	31
S-16-05: Durability data .....	31

### Revisions:


Issue Date / Revision Date	Affected Pages	Description of Changes
Aug-20-12	all	Initial Version

## S-01: Correspondence

(refer to S-01 in common section for a complete list of contacts)

Eric Schneider  
Manager, Government Liaison, CARB  
Resp.: CARB Liaison  
Phone: 310.549.7600, Fax: 310.518.3060  
e-mail: eric.a.schneider@mbusa.com

Brian Fitzgerald  
Manager, Government Liaison, EPA  
Resp.:EPA Liaison  
Phone: 734.997.2002, Fax: 734.995.1342  
e-mail: brian.fitzgerald@daimler.com

 Mercedes-Benz	<b>US</b>	<b>MY 2013</b>	<b>Application for Certification</b>	Issue Date	Rev Date	<b>DMBXV03.0U2B</b>
		<b>Part 1</b>	<b>S-02: Durability Group Description</b>	Aug-20-12		Page: 3

## S-02: Durability Group Description

Please refer to the common application for certification.

## S-03: Evaporative/Refueling Family Description

ORVR Testing Waiver per CFR § 86.1810-01 (k) + (m)

Due to the low vapour pressure of diesel fuel and the vehicle tank temperatures, hydrocarbon vapour concentrations are low and the vehicle meets the 0.20 grams/gallon refueling emission standard without a control system.

## S-04: Durability Procedure Description


Please refer to the common application for certification.

## S-05: Test Group Description

The summary sheet numbers are provided on the cover page of this application. The Test Group Description is provided in section 2 of the common application as part of the durability group description.

## S-06: Test Vehicle Description

vehicle use	car number	vehicle type	engine displ. [cm <sup>3</sup> ]	engine code	transm.	ETW [lbs]	exhaust emission control system
EDV-Ex	W212-Z0016	W212DE30TC	2987	OM642-30A	L-7	4500	DFI/TC/CAC/EGR/EGRC/OC/PTOX/SCR-U(2)/NOXS(2)/AFS
DDV-Ex	X164-889	X164DE30TC	2987	OM642-30B	L-7	6000	DFI/TC/CAC/EGR/EGRC/OC/PTOX/SCR-U(2)/NOXS(2)/AFS

	<b>US</b>	<b>MY 2013</b>	<b>Application for Certification</b>	Issue Date	Rev Date	<b>DMBXV03.0U2B</b>
		<b>Part 1</b>	<b>S-07: Test Results</b>	Aug-20-12		Page: 4

## S-07: Test Results

### S-07-01: Test Vehicle Information

Verify Processing Report

**Total Datasets Submitted: 1**

**Accepted Datasets: 1**

**Rejected Datasets: 0**

The original datasets are listed below. In addition, any information generated by the Verify system is also included. For any rejected datasets, the reason(s) the dataset was rejected is provided below in the Transaction Report for that particular dataset.

Test Vehicle Information Submission

Test Vehicle Information Details

**Information Process Code : N**

**EPA Manufacturer Code : MBX**

**Vehicle Identification Text : W212DE30TC-Z0016**

**Vehicle Configuration Number : 0**

Vehicle Configuration Details

Vehicle Description Details

**Manufacturer Vehicle Configuration Number : 0**

**Test Group Name : BMBXV03.0U2B**

**Model Year : 2011**

**Actual Test Vehicle Make Text : Mercedes-Benz**

**Actual Test Vehicle Model Text : E 350 BLUETEC**

**Vehicle Fuel Category Identifier : SF**

**Fuel1 Identifier : D**

**Fuel2 Identifier : NA**

**Test Drive Code : R**

**Shift Indicator Light Usage Identifier : 1**

**Aged Component Usage Identifier : 4**

Odometer Correction Details

**Correction Initial Value : 20**

**Correction Factor Value : 0.9909**

**Correction Sign Identifier : -**

**Correction Units Code : M**

**Engine Code Text : OM642-30**

**Engine Rated Horsepower Value : 210**

**Engine Displacement Value : 2.987**

Air Aspiration Details

**Air Aspiration Method Identifier : TC**

**Air Aspiration Device Count : 1**

**Air Aspiration Configuration Identifier : N**

**Charge Air Cooler Identifier : A**

Vehicle Specifications Details

**Curb Weight Value : 4288**


**Equivalent Test Weight Value : 4500**

**Gross Vehicle Weight Rating Value : 5225**

**NV Ratio Value : 26.6**

**Axle Ratio Value : 2.65**

Transmission Specifications Details

 Mercedes-Benz	<b>US</b>	<b>MY 2013</b>	<b>Application for Certification</b>	Issue Date	Rev Date	<b>DMBXV03.0U2B</b>
		<b>Part 1</b>	<b>S-07: Test Results</b>	Aug-20-12		Page: 5

**Light Duty Transmission Type Identifier** : A  
**Transmission Lockup Indicator** : Y  
**Transmission Creeper Gear Indicator** : N  
**Transmission Gear Count** : 7

Target Set Coefficient Details  
**Test Procedure Dynamometer Coefficients Category** : C-H-E  
**Target CoefficientA Value** : 40.777  
**Target CoefficientB Value** : 0.39144  
**Target CoefficientC Value** : 0.016571  
**Set CoefficientA Value** : 19.489  
**Set CoefficientB Value** : -0.386  
**Set CoefficientC Value** : 0.02357

EPA Generated Test Vehicle Details  
**Original Receipt Date** : 20100407  
**Adjusted Loaded Vehicle Weight Value** : 4756  
**Loaded Vehicle Weight Value** : 4588

Transaction Status Details  
**Transaction Status Identifier** : ACCEPTED

 Mercedes-Benz	<b>US</b>	<b>MY 2013</b>	<b>Application for Certification</b>	<b>Issue Date</b>	<b>Rev Date</b>	<b>DMBXV03.0U2B</b>
		<b>Part 1</b>	<b>S-07: Test Results</b>	Aug-20-12		Page: 6

## S-07-02: Test Results

Date: 09/26/2012 01:48:14 AM

### Certification Summary Information Report

<b>Manufacturer</b>	Mercedes Benz	<b>Manufacturer Code</b>	MBX
<b>Test Group</b>	DMBXV03.0U2B	<b>Evaporative/Refueling Family</b>	N/A
<b>Certificate Number</b>	N/A	<b>CARB Executive Order #</b>	N/A
<b>Certificate Issue Date</b>	N/A	<b>Certificate Revision Date</b>	N/A
<b>Certificate Effective Date</b>	N/A	<b>Conditional Certificate</b>	--
<b>CSI Revision #</b>	N/A	<b>CSI Submission/Revision Date</b>	09/26/2012
<b>Model Year</b>	2013		

<b>Test Group Information</b>			
<b>CSI Type</b>	Update for Correction	<b>Running Change Reference Number</b>	N/A
<b>GHG Exempt Status</b>	Not Exempt		
<b>Drive Sources and Fuel(s)</b>			
<b>Drive Source #1:</b>	Combustion Engine		


Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Diesel	Common Rail Direct Diesel Injection	--

<b>Hybrid Indicator</b>	No	<b>Rechargeable Energy Storage System Indicator</b>	--
<b>Multiple Fuel Storage</b>	--	<b>Off-board Charge Capable Indicator</b>	--
<b>Multiple Fuel Combustion</b>	--	<b>EPA Vehicle Class</b>	LDV
<b>Fuel Cell Indicator</b>	--	<b>Federal Clean Fuel Vehicle Standard</b>	--
<b>Federal Clean Fuel Vehicle</b>	No	<b>California Partial Zero Emissions Vehicle Indicator</b>	No
<b>Federal Clean Fuel Vehicle ILEV</b>	No	<b>Durability Group Equivalency Factor</b>	1.0
<b>Durability Group Name</b>	DMBXDPDNNPPI	<b>Certification Region Code(s)</b>	FA, CA
<b>Reduced Fee Test Group</b>	No	<b>CAP2000 Conditional Certificate?</b>	N/A
<b>Complies with HD GHG 2b/3 regulations?</b>	No	<b>Alternative Fuel Converter Certificate?</b>	--
<b>Introduction into Commerce Date</b>	--	<b>SFTP Composite CO Option</b>	No
<b>Independent Commercial Importer?</b>	--	<b>OBD Demonstration Vehicle Test Group</b>	BMBXV03.0U2B
<b>SFTP Compliance Indicator</b>	Yes		
<b>OBD Compliance Type</b>	CARB		
<b>Mfr Test Group Comments</b>	--		
<b>Mfr Exhaust / Evap Standards Comments</b>	--		


Models Covered by this Certificate							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Mercedes Benz	1 - Mercedes-Benz	303 - E 350 BLUETEC	Federal	2-Wheel Drive, Rear	Automatic	7	Yes
Mercedes Benz	1 - Mercedes-Benz	303 - E 350 BLUETEC	California + CAA Section 177 states	2-Wheel Drive, Rear	Automatic	7	Yes

 Mercedes-Benz	<b>US</b>	<b>MY 2013</b>	<b>Application for Certification</b>	<b>Issue Date</b>	<b>Rev Date</b>	<b>DMBXV03.0U2B</b>
		<b>Part 1</b>	<b>S-07: Test Results</b>	Aug-20-12		Page: 7

Date: 09/26/2012 01:48:14 AM

### Certification Summary Information Report

Test Group		DMBXV03.0U2B		Evaporative/Refueling Family		N/A															
Engine Description																					
Hybrid Type		--		Hybrid Description		--															
Engine Type		4-Stroke Compression Ignition		Mfr Engine Description		--															
Engine Block Arrangement		V-shaped engine		Mfr Engine Block Arrangement Description		--															
Camless Valvetrain Indicator		No		Oil Viscosity/Classification		0W-30															
Number of Cylinders/Rotors		6																			
After Treatment Device(s) (ATD)																					
ATD Number		ATD Type		ATD Precious Metal		Substrate Material		Substrate Construction													
1		Oxidation catalyst		Platinum + Palladium		Ceramic		Monolith													
2		Diesel Particulate Filter		Platinum + Palladium		Ceramic		Monolith													
3		Selective Catalytic Reduction		no precious metal / ferric oxide		Ceramic		Monolith													
Mfr After Treatment Device (ATD) Comments								--													
Direct Ozone Reduction (DOR) Device		Not Equipped																			
Mfr Emission Control Device Comments								--													
Engine Configuration Number 1																					
Engine Displacement (liters)		3.0		Engine Rated Horsepower		210															
Number of Inlet Valves Per Cylinder		2		Number of Exhaust Valves Per Cylinder		2															
Air Aspiration Method		Turbocharged		Number of Air Aspiration Devices		1															
Air Aspiration Device Configuration		Single		Charge Air Cooler Type		Air															
Cylinder Deactivation Description		N/A																			
Variable Valve Timing System Description		N/A		Variable Valve Lift System		N/A															
Number of Knock Sensors		0																			
Air/Fuel Sensor # 1 Type		Heated air fuel		Air/Fuel Sensor # 1 Description		N/A															
Mfr Air/Fuel Sensor Comments		--																			
Exhaust Gas Recirculation		Yes		EGR Type		Electronic/Electric															
Cooled Exhaust Gas Recirculation		Yes																			
Closed Loop Air Injection System		No		Air Injection Type		--															
Mfr Engine Configuration Comments		--																			
Official Test Numbers																					
Test Group						EPA City		EPA City		EPA		EPA		CREE							
Fuel		FTP		US06		SC03		Cold CO		Highway		Litmus Value		Litmus Threshold		Litmus Value		Litmus Threshold		Weighting Factor	
Diesel		BMBX10008850		BMBX10009176		BMBX10009257		BMBX10009177		BMBX10008851		21.0		20.4		30.4		30.4		N/A	

 Mercedes-Benz	<b>US</b>	<b>MY 2013</b>	<b>Application for Certification</b>	<b>Issue Date</b>	<b>Rev Date</b>	<b>DMBXV03.0U2B</b>
		<b>Part 1</b>	<b>S-07: Test Results</b>	Aug-20-12		Page: 8

Date: 09/26/2012 01:48:14 AM

### Certification Summary Information Report

<b>Test Group</b>	DMBXV03.0U2B		<b>Evaporative/Refueling Family</b>	N/A					
<b>Emission Data Vehicle Information</b>									
<b>Vehicle ID / Configuration</b>	W212DE30TC-Z0016 / 0								
<b>Vehicle Model</b>									
<b>Represented Test Vehicle Make</b>	Mercedes-Benz	<b>Represented Test Vehicle Model</b>	E 350 BLUETEC						
<b>Drive Sources and Fuel System Details</b>									
	<table border="1"> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> <tr> <td>1</td> <td>Combustion Engine</td> <td>Diesel</td> </tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Diesel		
Drive Source and Fuel#	Drive Source	Fuel							
1	Combustion Engine	Diesel							
<b>Hybrid Indicator</b>	N	<b>Multiple Fuel Combustion</b>	--						
<b>Multiple Fuel Storage</b>	--	<b>Rechargeable Energy Storage System Indicator</b>	N						
<b>Fuel Cell Indicator</b>	N	<b>Rechargeable Energy Storage System, if 'Other'</b>	--						
<b>Rechargeable Energy Storage System</b>	--	<b># of Transmission Gears</b>	7						
<b>Off-board charge Capable Indicator</b>	--	<b>Axle Ratio</b>	2.65						
<b>Transmission Type</b>	Automatic	<b>Rated Horsepower</b>	210						
<b>Engine Code</b>	OM642-30	<b>Air Aspiration Method</b>	Turbocharged						
<b>Displacement (liters)</b>	2.987	<b>SIL Usage</b>	Not equipped						
<b>Equivalent Test Weight (pounds)</b>	4500								
<b>Drive Mode While Testing</b>	2-Wheel Drive, Rear								
<b>Aged Emission Components</b>	4,000 (mi)								
<b>Dynamometer Coefficients:</b>									
	<b>Target Coefficients</b>			<b>Set Coefficients</b>					
<b>Coefficient Category</b>	<b>A (lbf)</b>	<b>B (lbf/mph)</b>	<b>C (lbf/mph**2)</b>	<b>EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients</b>					
City/Highway/Evap	40.777	0.39144	0.016571	--					
<b>Manufacturer Test Vehicle Comments</b> --									




 Mercedes-Benz	<b>US</b>	<b>MY 2013</b>	<b>Application for Certification</b>	<b>Issue Date</b>	<b>Rev Date</b>	<b>DMBXV03.0U2B</b>
		<b>Part 1</b>	<b>S-07: Test Results</b>	Aug-20-12		Page: 9

Date: 09/26/2012 01:48:14 AM

### Certification Summary Information Report

<b>Test Group</b>	DMBXV03.0U2B	<b>Evaporative/Refueling Family</b>	N/A																																													
<b>Test #</b>	BMBX10008850	<b>Test Procedure</b>	2 - CVS 75 and later (w/o can. load)																																													
<b>Exhaust Test # for this Evap Test</b>	N/A	<b>Test Fuel Type</b>	19 - Cert Diesel 7-15 ppm Sulfur																																													
<b>Test Date</b>	12/16/2009	<b>Fuel</b>	Diesel																																													
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined																																													
<b>Verify Test Lab ID</b>	Abgashaus Untertuerkheim																																															
<b>Test Results</b>																																																
	<table border="1"> <thead> <tr> <th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE MPG Equivalent Value</th></tr> </thead> <tbody> <tr><td>Bag 1 Carbon Dioxide</td><td>448</td><td>--</td></tr> <tr><td>Bag 1 Fuel Economy</td><td>22.7</td><td>22.7</td></tr> <tr><td>Bag 2 Carbon Dioxide</td><td>364.2</td><td>--</td></tr> <tr><td>Bag 2 Fuel Economy</td><td>27.9</td><td>27.9</td></tr> <tr><td>Bag 3 Carbon Dioxide</td><td>345.6</td><td>--</td></tr> <tr><td>Bag 3 Fuel Economy</td><td>29.4</td><td>29.4</td></tr> <tr><td>Carbon Monoxide</td><td>0.1004</td><td>--</td></tr> <tr><td>Formaldehyde</td><td>0.00016</td><td>--</td></tr> <tr><td>Manufacturer Fuel Economy</td><td>27.0067</td><td>27.0067</td></tr> <tr><td>Nitrogen Oxide</td><td>0.0178</td><td>--</td></tr> <tr><td>Non-methane Hydrocarbon</td><td>0.00888</td><td>--</td></tr> <tr><td>Non-methane organic gas (California)</td><td>0.00888</td><td>--</td></tr> <tr><td>Particulate Matter</td><td>0.0009</td><td>--</td></tr> <tr><td>Total Hydrocarbon</td><td>0.04444</td><td>--</td></tr> </tbody> </table>	Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value	Bag 1 Carbon Dioxide	448	--	Bag 1 Fuel Economy	22.7	22.7	Bag 2 Carbon Dioxide	364.2	--	Bag 2 Fuel Economy	27.9	27.9	Bag 3 Carbon Dioxide	345.6	--	Bag 3 Fuel Economy	29.4	29.4	Carbon Monoxide	0.1004	--	Formaldehyde	0.00016	--	Manufacturer Fuel Economy	27.0067	27.0067	Nitrogen Oxide	0.0178	--	Non-methane Hydrocarbon	0.00888	--	Non-methane organic gas (California)	0.00888	--	Particulate Matter	0.0009	--	Total Hydrocarbon	0.04444	--		
Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value																																														
Bag 1 Carbon Dioxide	448	--																																														
Bag 1 Fuel Economy	22.7	22.7																																														
Bag 2 Carbon Dioxide	364.2	--																																														
Bag 2 Fuel Economy	27.9	27.9																																														
Bag 3 Carbon Dioxide	345.6	--																																														
Bag 3 Fuel Economy	29.4	29.4																																														
Carbon Monoxide	0.1004	--																																														
Formaldehyde	0.00016	--																																														
Manufacturer Fuel Economy	27.0067	27.0067																																														
Nitrogen Oxide	0.0178	--																																														
Non-methane Hydrocarbon	0.00888	--																																														
Non-methane organic gas (California)	0.00888	--																																														
Particulate Matter	0.0009	--																																														
Total Hydrocarbon	0.04444	--																																														
	<table border="1"> <thead> <tr> <th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CREE/OPT-CREE</th></tr> </thead> <tbody> <tr> <td>Carbon-Related Exhaust Emissions</td><td>376</td><td>376</td></tr> </tbody> </table>	Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	Carbon-Related Exhaust Emissions	376	376																																									
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE																																														
Carbon-Related Exhaust Emissions	376	376																																														
	<table border="1"> <thead> <tr> <th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr> </thead> <tbody> <tr> <td>Carbon dioxide</td><td>376.49</td><td>376</td></tr> </tbody> </table>	Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	376.49	376																																									
Test Result Name	Unrounded Test Result	Verify Calculated CO2																																														
Carbon dioxide	376.49	376																																														
<b>Manufacturer Test Comments</b>	For cyclic regenerations of Diesel PC/LDT, MB applies an approved "Additive Adjustment Factor" (AAF).																																															

 Mercedes-Benz	<b>US</b>	<b>MY 2013</b>	<b>Application for Certification</b>	<b>Issue Date</b>	<b>Rev Date</b>	<b>DMBXV03.0U2B</b>
		<b>Part 1</b>	<b>S-07: Test Results</b>	<b>Aug-20-12</b>		<b>Page: 10</b>

Date: 09/26/2012 01:48:14 AM

**Certification Summary Information Report**

Test Group		DMBXV03.0U2B		Evaporative/Refueling Family				N/A				
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NMHC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	50,000 miles	Federal Tier 2 Bin 5	CO	0.10	--	--	0.0047 UP	0.03	--	0.1	3.4	Pass
Fed	50,000 miles	Federal Tier 2 Bin 5	HCHO	0.0002	--	--	0.00001 UP	0.0	--	0.000	0.015	Pass
Fed	50,000 miles	Federal Tier 2 Bin 5	NMOG	0.0089	--	1.00	0.0006 UP	0.0022	--	0.012	0.075	Pass
Fed	50,000 miles	Federal Tier 2 Bin 5	NOX	0.018	--	--	0.003 UP	0.0	--	0.02	0.05	Pass
Fed	50,000 miles	Federal Tier 2 Bin 5	PM	0.001	--	--	0.0012 UP	0.00003	--	0.00	0.01	Pass
Fed	120,000 miles	Federal Tier 2 Bin 5	CO	0.10	--	--	0.0047 UP	0.07	--	0.2	4.2	Pass
Fed	120,000 miles	Federal Tier 2 Bin 5	CREE	376	--	--	0 UP	0	--	376	--	--
Fed	120,000 miles	Federal Tier 2 Bin 5	HC-NM+NOX-COMP	0.070	--	--	0.0036 UP	0.0055	--	0.07	0.65	Pass
Fed	120,000 miles	Federal Tier 2 Bin 5	HCHO	0.0002	--	--	0.00001 UP	0.0001	--	0.000	0.018	Pass
Fed	120,000 miles	Federal Tier 2 Bin 5	NMOG	0.0089	--	1.00	0.0006 UP	0.0055	--	0.015	0.090	Pass
Fed	120,000 miles	Federal Tier 2 Bin 5	NOX	0.018	--	--	0.003 UP	0.0	--	0.02	0.07	Pass
Fed	120,000 miles	Federal Tier 2 Bin 5	PM	0.001	--	--	0.0012 UP	0.00008	--	0.00	0.01	Pass
Fed	120,000 miles	Federal Tier 2 Bin 5	PM-COMP	0.001	--	--	0.0012 UP	0.00008	--	0.00	0.07	Pass
CA	50,000 miles	California LEV-II ULEV	CO	0.10	--	--	0.0047 UP	0.03	--	0.1	1.7	Pass
CA	50,000 miles	California LEV-II ULEV	HCHO	0.0002	--	--	0.00001 UP	0.0	--	0.000	0.008	Pass
CA	50,000 miles	California LEV-II ULEV	NMOG	0.0089	--	1.00	0.0006 UP	0.0022	--	0.012	0.040	Pass
CA	50,000 miles	California LEV-II ULEV	NOX	0.018	--	--	0.003 UP	0.0	--	0.02	0.05	Pass
CA	120,000 miles	California LEV-II ULEV	CO	0.10	--	--	0.0047 UP	0.07	--	0.2	2.1	Pass
CA	120,000 miles	California LEV-II ULEV	CREE	376	--	--	0 UP	0	--	376	--	--
CA	120,000 miles	California LEV-II ULEV	HCHO	0.0002	--	--	0.00001 UP	0.0001	--	0.000	0.011	Pass
CA	120,000 miles	California LEV-II ULEV	NMOG	0.0089	--	1.00	0.0006 UP	0.0055	--	0.015	0.055	Pass
CA	120,000 miles	California LEV-II ULEV	NOX	0.018	--	--	0.003 UP	0.0	--	0.02	0.07	Pass

 Mercedes-Benz	<b>US</b>	<b>MY 2013</b>	<b>Application for Certification</b>	<b>Issue Date</b>	<b>Rev Date</b>	<b>DMBXV03.0U2B</b>
		<b>Part 1</b>	<b>S-07: Test Results</b>	Aug-20-12		Page: 11

Date: 09/26/2012 01:48:14 AM

**Certification Summary Information Report**

Test Group				DMBXV03.0U2B		Evaporative/Refueling Family				N/A		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
CA	120,000 miles	California LEV-II ULEV	PM	0.001	--	--	0.0012 UP	0.00008	--	0.00	0.01	Pass

NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.

<b>Test #</b>	<b>BMBX10009177</b>	<b>Test Procedure</b>	<b>11 - Cold CO</b>
<b>Exhaust Test # for this Evap Test</b>	N/A	<b>Test Fuel Type</b>	19 - Cert Diesel 7-15 ppm Sulfur
<b>Test Date</b>	12/09/2009	<b>Fuel</b>	N/A
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Abgashaus Untertuerkheim		

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value
Bag 1 Carbon Dioxide	621.1	--
Bag 1 Fuel Economy	16.32	16.32
Bag 2 Carbon Dioxide	452.2	--
Bag 2 Fuel Economy	22.5	22.5
Bag 3 Carbon Dioxide	364.8	--
Bag 3 Fuel Economy	27.89	27.89
Carbon Monoxide	0.283	--
Manufacturer Fuel Economy	21.9445	21.9445
Total Hydrocarbon	0.03241	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	463.16	--

**Manufacturer Test Comments** ColdCO for Litmus, added Bag results

 Mercedes-Benz	<b>US</b>	<b>MY 2013</b>	<b>Application for Certification</b>	<b>Issue Date</b>	<b>Rev Date</b>	<b>DMBXV03.0U2B</b>
		<b>Part 1</b>	<b>S-07: Test Results</b>	Aug-20-12		Page: 12


Date: 09/26/2012 01:48:14 AM

### Certification Summary Information Report

<b>Test Group</b>	DMBXV03.0U2B	<b>Evaporative/Refueling Family</b>	N/A
<b>Test #</b>	BMBX10008851	<b>Test Procedure</b>	3 - HWFE
<b>Exhaust Test # for this Evap Test</b>	N/A	<b>Test Fuel Type</b>	19 - Cert Diesel 7-15 ppm Sulfur
<b>Test Date</b>	12/17/2009	<b>Fuel</b>	Diesel
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	Abgashaus Untertuerkheim		
<b>Test Results</b>			
<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated FE MPG Equivalent Value</b>	
Carbon Monoxide	0.0051	--	
Manufacturer Fuel Economy	45	45	
Nitrogen Oxide	0.0015	--	
Non-methane Hydrocarbon	0.00039	--	
Total Hydrocarbon	0.0093	--	
<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated CREE/OPT-CREE</b>	
Carbon-Related Exhaust Emissions	226	226	
<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated CO2</b>	
Carbon dioxide	225.55	226	
<b>Manufacturer Test Comments</b>	Mfr FE added, FE bag 1 added CREE added		

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	50,000 miles	Federal Tier 2 Bin 5	NOX	0.002	--	--	0.003 UP	0.0	--	0.00	0.07	Pass
Fed	120,000 miles	Federal Tier 2 Bin 5	CREE	226	--	--	0 UP	0	--	226	--	--
Fed	120,000 miles	Federal Tier 2 Bin 5	NOX	0.002	--	--	0.003 UP	0.0	--	0.00	0.09	Pass
CA	50,000 miles	California LEV-II ULEV	NOX	0.002	--	--	0.003 UP	0.0	--	0.00	0.07	Pass
CA	120,000 miles	California LEV-II ULEV	CREE	226	--	--	0 UP	0	--	226	--	--
CA	120,000 miles	California LEV-II ULEV	NOX	0.002	--	--	0.003 UP	0.0	--	0.00	0.09	Pass

**NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.**

 Mercedes-Benz	<b>US</b>	<b>MY 2013</b>	<b>Application for Certification</b>	<b>Issue Date</b>	<b>Rev Date</b>	<b>DMBXV03.0U2B</b>
		<b>Part 1</b>	<b>S-07: Test Results</b>	Aug-20-12		Page: 13

Date: 09/26/2012 01:48:14 AM

### Certification Summary Information Report

<b>Test Group</b>	DMBXV03.0U2B	<b>Evaporative/Refueling Family</b>	N/A																																				
<b>Test #</b>	BMBX10009176	<b>Test Procedure</b>	90 - US06																																				
<b>Exhaust Test # for this Evap Test</b>	N/A	<b>Test Fuel Type</b>	19 - Cert Diesel 7-15 ppm Sulfur																																				
<b>Test Date</b>	12/16/2009	<b>Fuel</b>	Diesel																																				
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined																																				
<b>Verify Test Lab ID</b>	Abgashaus Untertuerkheim																																						
<b>Test Results</b>																																							
	<table border="1"> <thead> <tr> <th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE MPG Equivalent Value</th></tr> </thead> <tbody> <tr><td>Bag 1 Carbon Dioxide</td><td>580.6</td><td>--</td></tr> <tr><td>Bag 1 Fuel Economy</td><td>17.53</td><td>17.53</td></tr> <tr><td>Bag 2 Carbon Dioxide</td><td>310.8</td><td>--</td></tr> <tr><td>Bag 2 Fuel Economy</td><td>32.73</td><td>32.73</td></tr> <tr><td>Carbon Monoxide</td><td>0.007</td><td>--</td></tr> <tr><td>Manufacturer Fuel Economy</td><td>27.4409</td><td>27.4409</td></tr> <tr><td>Nitrogen Oxide</td><td>0.06969</td><td>--</td></tr> <tr><td>Non-methane Hydrocarbon</td><td>0</td><td>--</td></tr> <tr><td>Particulate Matter</td><td>0.00246</td><td>--</td></tr> <tr><td>SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03</td><td>0.06969</td><td>--</td></tr> <tr><td>Total Hydrocarbon</td><td>0.0049</td><td>--</td></tr> </tbody> </table>	Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value	Bag 1 Carbon Dioxide	580.6	--	Bag 1 Fuel Economy	17.53	17.53	Bag 2 Carbon Dioxide	310.8	--	Bag 2 Fuel Economy	32.73	32.73	Carbon Monoxide	0.007	--	Manufacturer Fuel Economy	27.4409	27.4409	Nitrogen Oxide	0.06969	--	Non-methane Hydrocarbon	0	--	Particulate Matter	0.00246	--	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	0.06969	--	Total Hydrocarbon	0.0049	--		
Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value																																					
Bag 1 Carbon Dioxide	580.6	--																																					
Bag 1 Fuel Economy	17.53	17.53																																					
Bag 2 Carbon Dioxide	310.8	--																																					
Bag 2 Fuel Economy	32.73	32.73																																					
Carbon Monoxide	0.007	--																																					
Manufacturer Fuel Economy	27.4409	27.4409																																					
Nitrogen Oxide	0.06969	--																																					
Non-methane Hydrocarbon	0	--																																					
Particulate Matter	0.00246	--																																					
SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	0.06969	--																																					
Total Hydrocarbon	0.0049	--																																					
	<table border="1"> <thead> <tr> <th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr> </thead> <tbody> <tr><td>Carbon dioxide</td><td>370.8</td><td>--</td></tr> </tbody> </table>	Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	370.8	--																																
Test Result Name	Unrounded Test Result	Verify Calculated CO2																																					
Carbon dioxide	370.8	--																																					
<b>Manufacturer Test Comments</b>	--																																						


Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	4,000 miles	Federal Tier 2 Bin 5	CO	0.01	--	--	0.0047 UP	--	--	0.0	8.0	Pass
Fed	4,000 miles	Federal Tier 2 Bin 5	HC-NM+NOX	0.070	--	--	0.0036 UP	--	--	0.07	0.14	Pass
Fed	120,000 miles	Federal Tier 2 Bin 5	CO	0.01	--	--	0.0047 UP	0.07	--	0.1	11.1	Pass
CA	4,000 miles	California LEV-II ULEV	CO	0.01	--	--	0.0047 UP	--	--	0.0	8.0	Pass
CA	4,000 miles	California LEV-II ULEV	HC-NM+NOX	0.070	--	--	0.0036 UP	--	--	0.07	0.14	Pass

 Mercedes-Benz	<b>US</b>	<b>MY 2013</b>	<b>Application for Certification</b>	<b>Issue Date</b>	<b>Rev Date</b>	<b>DMBXV03.0U2B</b>
		<b>Part 1</b>	<b>S-07: Test Results</b>	Aug-20-12		Page: 14

Date: 09/26/2012 01:48:14 AM

### Certification Summary Information Report

<b>Test Group</b>	DMBXV03.0U2B	<b>Evaporative/Refueling Family</b>	N/A																								
<b>Test #</b>	BMBX10009257	<b>Test Procedure</b>	95 - SC03																								
<b>Exhaust Test # for this Evap Test</b>	N/A	<b>Test Fuel Type</b>	19 - Cert Diesel 7-15 ppm Sulfur																								
<b>Test Date</b>	04/16/2010	<b>Fuel</b>	Diesel																								
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	Mfr. Determined																								
<b>Verify Test Lab ID</b>	Abgashauss Untertuerkheim																										
<b>Test Results</b>																											
	<table border="1"> <thead> <tr> <th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE MPG Equivalent Value</th></tr> </thead> <tbody> <tr> <td>Carbon Monoxide</td><td>0.00885</td><td>--</td></tr> <tr> <td>Manufacturer Fuel Economy</td><td>22.9</td><td>22.9</td></tr> <tr> <td>Nitrogen Oxide</td><td>0.0964</td><td>--</td></tr> <tr> <td>Non-methane Hydrocarbon</td><td>0</td><td>--</td></tr> <tr> <td>Particulate Matter</td><td>0.00129</td><td>--</td></tr> <tr> <td>SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03</td><td>0.0964</td><td>--</td></tr> <tr> <td>Total Hydrocarbon</td><td>0.01432</td><td>--</td></tr> </tbody> </table>	Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value	Carbon Monoxide	0.00885	--	Manufacturer Fuel Economy	22.9	22.9	Nitrogen Oxide	0.0964	--	Non-methane Hydrocarbon	0	--	Particulate Matter	0.00129	--	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	0.0964	--	Total Hydrocarbon	0.01432	--		
Test Result Name	Unrounded Test Result	Verify Calculated FE MPG Equivalent Value																									
Carbon Monoxide	0.00885	--																									
Manufacturer Fuel Economy	22.9	22.9																									
Nitrogen Oxide	0.0964	--																									
Non-methane Hydrocarbon	0	--																									
Particulate Matter	0.00129	--																									
SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	0.0964	--																									
Total Hydrocarbon	0.01432	--																									
	<table border="1"> <thead> <tr> <th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr> </thead> <tbody> <tr> <td>Carbon dioxide</td><td>443.987</td><td>--</td></tr> </tbody> </table>	Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	443.987	--																				
Test Result Name	Unrounded Test Result	Verify Calculated CO2																									
Carbon dioxide	443.987	--																									
<b>Manufacturer Test Comments</b>	--																										
<b>Certification Region</b>	<b>Useful Life</b>	<b>Standard Level</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG/NM HC Ratio</b>	<b>Diesel Adjustment Factor</b>	<b>Add DF</b>	<b>Mult DF</b>	<b>Certification Level</b>	<b>Standard</b>	<b>Pass/Fail</b>															
Fed	4,000 miles	Federal Tier 2 Bin 5	CO	0.01	--	--	0.0047 UP	--	--	0.0	2.7	Pass															
Fed	4,000 miles	Federal Tier 2 Bin 5	HC-NM+NOX	0.096	--	--	0.0036 UP	--	--	0.10	0.20	Pass															
Fed	120,000 miles	Federal Tier 2 Bin 5	CO	0.01	--	--	0.0047 UP	0.07	--	0.1	3.7	Pass															
CA	4,000 miles	California LEV-II ULEV	CO	0.01	--	--	0.0047 UP	--	--	0.0	2.7	Pass															
CA	4,000 miles	California LEV-II ULEV	HC-NM+NOX	0.096	--	--	0.0036 UP	--	--	0.10	0.20	Pass															

 Mercedes-Benz	<b>US</b>	<b>MY 2013</b>	<b>Application for Certification</b>	<b>Issue Date</b>	<b>Rev Date</b>	<b>DMBXV03.0U2B</b>
		<b>Part 1</b>	<b>S-07: Test Results</b>	Aug-20-12		Page: 15

Date: 09/26/2012 01:48:18 AM

### Certification Summary Information Report

Test Group		DMBXV03.0U2B			Evaporative/Refueling Family		N/A		
Consolidated List of Standards									
Exhaust Standards									
Cert Region		California + CAA Section 177 states			Cert/In-Use Code		Both		
Vehicle Class		LDV/Passenger Car			Standard Level		California LEV-II ULEV		
Fuel		Diesel			Test Procedure		SC03		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
4,000 miles	CO	--	--	--	0.0047	0	--	--	2.7
4,000 miles	HC-NM+NOX	--	--	--	0.0036	0	--	--	0.20
Cert Region		California + CAA Section 177 states			Cert/In-Use Code		Both		
Vehicle Class		LDV/Passenger Car			Standard Level		California LEV-II ULEV		
Fuel		Diesel			Test Procedure		CVS 75 and later (w/o can. load)		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	0.0047	0	--	0.03	1.7
50,000 miles	HCHO	--	--	--	0.00001	0	--	0.0	0.008
50,000 miles	NMOG	--	--	1.00	0.0006	0	--	0.0022	0.040
50,000 miles	NOX	--	--	--	0.003	0	--	0.0	0.05
120,000 miles	CO	--	--	--	0.0047	0	--	0.07	2.1
120,000 miles	CREE	--	--	--	0	0	--	0	999
120,000 miles	HCHO	--	--	--	0.00001	0	--	0.0001	0.011
120,000 miles	NMOG	--	--	1.00	0.0006	0	--	0.0055	0.055
120,000 miles	NOX	--	--	--	0.003	0	--	0.0	0.07
120,000 miles	PM	--	--	--	0.0012	0	--	0.00008	0.01
Cert Region		California + CAA Section 177 states			Cert/In-Use Code		Both		
Vehicle Class		LDV/Passenger Car			Standard Level		California LEV-II ULEV		
Fuel		Diesel			Test Procedure		HWFE		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	NOX	--	--	--	0.003	0	--	0.0	0.07
120,000 miles	CREE	--	--	--	0	0	--	0	999
120,000 miles	NOX	--	--	--	0.003	0	--	0.0	0.09


 Mercedes-Benz	<b>US</b>	<b>MY 2013</b>	<b>Application for Certification</b>	<b>Issue Date</b>	<b>Rev Date</b>	<b>DMBXV03.0U2B</b>
		<b>Part 1</b>	<b>S-07: Test Results</b>	Aug-20-12		Page: 16

Date: 09/26/2012 01:48:18 AM

### Certification Summary Information Report

<b>Test Group</b>		DMBXV03.0U2B			<b>Evaporative/Refueling Family</b>		N/A		
<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>		Both		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>		Federal Tier 2 Bin 5		
<b>Fuel</b>		Diesel			<b>Test Procedure</b>		US06		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>
4,000 miles	CO	--	--	--	0.0047	0	--	--	8.0
4,000 miles	HC-NM+NOX	--	--	--	0.0036	0	--	--	0.14
120,000 miles	CO	--	--	--	0.0047	0	--	0.07	11.1
<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>		Both		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>		Federal Tier 2 Bin 5		
<b>Fuel</b>		Diesel			<b>Test Procedure</b>		SC03		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>
4,000 miles	CO	--	--	--	0.0047	0	--	--	2.7
4,000 miles	HC-NM+NOX	--	--	--	0.0036	0	--	--	0.20
120,000 miles	CO	--	--	--	0.0047	0	--	0.07	3.7
<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>		Both		
<b>Vehicle Class</b>		LDV/Passenger Car			<b>Standard Level</b>		California LEV-II ULEV		
<b>Fuel</b>		Diesel			<b>Test Procedure</b>		US06		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>
4,000 miles	CO	--	--	--	0.0047	0	--	--	8.0
4,000 miles	HC-NM+NOX	--	--	--	0.0036	0	--	--	0.14




 Mercedes-Benz	<b>US</b>	<b>MY 2013</b>	<b>Application for Certification</b>	<b>Issue Date</b>	<b>Rev Date</b>	<b>DMBXV03.0U2B</b>
		<b>Part 1</b>	<b>S-07: Test Results</b>	Aug-20-12		Page: 17

Date: 09/26/2012 01:48:18 AM

### Certification Summary Information Report


<b>Test Group</b>		DMBXV03.0U2B		<b>Evaporative/Refueling Family</b>		N/A			
<b>Cert Region</b>		Federal		<b>Cert/In-Use Code</b>		Both			
<b>Vehicle Class</b>		LDV/Passenger Car		<b>Standard Level</b>		Federal Tier 2 Bin 5			
<b>Fuel</b>		Diesel		<b>Test Procedure</b>		CVS 75 and later (w/o can. load)			
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	0.0047	0	--	0.03	3.4
50,000 miles	HCHO	--	--	--	0.00001	0	--	0.0	0.015
50,000 miles	NMOG	--	--	1.00	0.0006	0	--	0.0022	0.075
50,000 miles	NOX	--	--	--	0.003	0	--	0.0	0.05
50,000 miles	PM	--	--	--	0.0012	0	--	0.00003	0.01
120,000 miles	CO	--	--	--	0.0047	0	--	0.07	4.2
120,000 miles	CREE	--	--	--	0	0	--	0	999
120,000 miles	HC-NM+NOX-COMP	--	--	--	0.0036	0	--	0.0055	0.65
120,000 miles	HCHO	--	--	--	0.00001	0	--	0.0001	0.018
120,000 miles	NMOG	--	--	1.00	0.0006	0	--	0.0055	0.090
120,000 miles	NOX	--	--	--	0.003	0	--	0.0	0.07
120,000 miles	PM	--	--	--	0.0012	0	--	0.00008	0.01
120,000 miles	PM-COMP	--	--	--	0.0012	0	--	0.00008	0.07
<b>Cert Region</b>		Federal		<b>Cert/In-Use Code</b>		Both			
<b>Vehicle Class</b>		LDV/Passenger Car		<b>Standard Level</b>		Federal Tier 2 Bin 5			
<b>Fuel</b>		Diesel		<b>Test Procedure</b>		HWFE			
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	NOX	--	--	--	0.003	0	--	0.0	0.07
120,000 miles	CREE	--	--	--	0	0	--	0	999
120,000 miles	NOX	--	--	--	0.003	0	--	0.0	0.09

 Mercedes-Benz	<b>US</b>	<b>MY 2013</b>	<b>Application for Certification</b>	<b>Issue Date</b>	<b>Rev Date</b>	<b>DMBXV03.0U2B</b>
		<b>Part 1</b>	<b>S-07: Test Results</b>	Aug-20-12		Page: 18

Date: 09/26/2012 01:48:18 AM

**Certification Summary Information Report**


Test Group	DMBXV03.0U2B	Evaporative/Refueling Family	N/A
Glossary			
Useful Life			
4	4,000 miles	120	120,000 miles
50	50,000 miles	150	150,000 miles
100	100,000 miles		
Emission Name			
HC-TOTAL	Total Hydrocarbon	FE BAG 2	Bag 2 Fuel Economy
CO	Carbon Monoxide	FE BAG 3	Bag 3 Fuel Economy
CO2	Carbon dioxide	FE BAG 4	Bag 4 Fuel Economy
CREE	Carbon-Related Exhaust Emissions	MFR FE	Manufacturer Fuel Economy
OPT-CREE	Optional Carbon-Related Exhaust Emissions	HC	Hydrocarbon for Running Loss and ORVR
NOX	Nitrogen Oxide	METHANE	CH4 - Methane
PM	Particulate Matter	METHANOL	CH3OH - Methanol
PM-COMP	SFTP Composite Particulate Matter	N2O	Nitrous Oxide
HC-NM	Non-methane Hydrocarbon	SPITBACK	Spitback Hydrocarbon in grams
OMHCE	Organic material Hydrocarbon Equivalent	AMP-HRS	Integrated Amp-hours
OMNMHCE	Organic material non-methane HC equivalent	START-SOC	System Start State of Charge Watt-hours
NMOG	Non-methane organic gas (California)	END-SOC	System End State of Charge Watt-hours
HCHO	Formaldehyde	ACT-DISTANCE	Actual Distance Driven (miles)
H3C2HO	Acetaldehyde	AS-VOLT	Average System Voltage
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	CO2 BAG 1	Bag 1 Carbon Dioxide
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	CO2 BAG 2	Bag 2 Carbon Dioxide
CO-COMP	SFTP Composite Carbon Monoxide	CO2 BAG 3	Bag 3 Carbon Dioxide
ETHANOL	C2H5OH - Ethanol	CO2 BAG 4	Bag 4 Carbon Dioxide
FE BAG 1	Bag 1 Fuel Economy		
Certification Region			
CA	California + CAA Section 177 states	FA	Federal
Exhaust Emission Standard Level			
B1	Federal Tier 2 Bin 1	HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)
B2	Federal Tier 2 Bin 2	HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)
B3	Federal Tier 2 Bin 3	L2	California LEV-II LEV
B4	Federal Tier 2 Bin 4	L2OP	California LEV-II LEV Optional
B5	Federal Tier 2 Bin 5	U2	California LEV-II ULEV
B6	Federal Tier 2 Bin 6	S2	California LEV-II SULEV
B7	Federal Tier 2 Bin 7	ZEV	California ZEV
B8	Federal Tier 2 Bin 8	OT	Other
B9	Federal Tier 2 Bin 9	T1	Federal Tier 1
B10	Federal Tier 2 Bin 10	PZEV	California PZEV
B11	Federal Tier 2 Bin 11		

 Mercedes-Benz	US	MY 2013	Application for Certification	Issue Date	Rev Date	DMBXV03.0U2B
		Part 1	S-07: Test Results	Aug-20-12		Page: 19

Date: 09/26/2012 01:48:18 AM

### Certification Summary Information Report

Test Group		DMBXV03.0U2B		Evaporative/Refueling Family		N/A	
Transmission Type Code							
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)			M	Manual		
A	Automatic			OT	Other		
AM	Automated Manual			SA	Semi-Automatic		
CVT	Continuously Variable			SCV	Selectable Continuously Variable (e.g. CVT with paddles)		
Drive System Code							
4	4-Wheel Drive			P	Part-time 4-Wheel Drive		
F	2-Wheel Drive, Front			A	All Wheel Drive		
R	2-Wheel Drive, Rear						
Additional Terms and Acronyms							
AFC	Alternative Fuel Converter			ICI	Independent Commercial Importer		
CSI	Certificate Summary Information			ORVR	Onboard Refueling Vapor Recovery		
DF	Deterioration Factor			SIL	Shift Indicator Light		
Evap	Evaporation, Evaporative			Trans	Transmission		

 Mercedes-Benz	<b>US</b>	<b>MY 2013</b>	<b>Application for Certification</b>	Issue Date	Rev Date	<b>DMBXV03.0U2B</b>
		<b>Part 1</b>	<b>S-08: Statements</b>	Aug-20-12		Page: 20

## **S-08: Statements**

Please refer to the common application for certification.

## **S-09: OBD-System Information**

The OBD approval is listed in specific section 14.

## **S-10: Alternate Fuel (if applicable)**

This test group does not cover flexible or dedicated alternate fuel vehicles.

## **S-11: List of AECD**

Please refer to S-16 for a detailed description of AECDs including functional explanations.

## **S-12: Identification and Description of certified vehicles**

The identification and description of all vehicles covered by the certificate is given

- in section 02 (common) for exhaust purposes
- in section 03 (common) for evaporative/refueling families.

All appropriate test parameters necessary to conduct an official certification exhaust or evaporative emission test are provided in sections 07 or 17.

## **S-13: Projected US vehicle sales**

Please refer to the common application for certification.

 Mercedes-Benz	<b>US</b>	<b>MY 2013</b>	<b>Application for Certification</b>	Issue Date	Rev Date	<b>DMBXV03.0U2B</b>
		<b>Part 1</b>	<b>S-14: Request for Certificate</b>	Aug-20-12		Page: 21

## S-14: Request for Certificate

### S-14-01: Request for Certificate

Mercedes-Benz requests that EPA issues a certificate of conformity and that ARB issues an executive order for the test group listed on the cover page of this application.

The applicable test results are listed in section 07. The test group complies with all applicable regulations contained within 40 CFR Part 86. The application is current as of this date.



Markus Loesch

Note: Compliance statements are listed in the common section 08.

### S-14-02: OBD approval

For OBD approval see confidential section (S-16)

 Mercedes-Benz	<b>US</b>	<b>MY 2013</b>	<b>Application for Certification</b>	Issue Date	Rev Date	<b>DMBXV03.0U2B</b>
		<b>Part 1</b>	<b>S-14: Request for Certificate</b>	Aug-20-12		Page: 22

S-14-03: Fee filing form

EPA Form 3520-29 OMB Control No. 2060-0545

**EPA** U.S. ENVIRONMENTAL PROTECTION AGENCY  
 MOTOR VEHICLE AND ENGINE COMPLIANCE PROGRAM  
**ON-HIGHWAY FEE FILING FORM**  
 FOR CERTIFICATION APPLICATIONS RECEIVED IN CALENDAR YEAR 2012

Manufacturer Name Mercedes-Benz USA, LLC.  
 Address One Mercedes Drive  
 City/State/Zip Code/Country Montvale, NJ 07645

On-Highway Certification Request Type (check one)

☒ LDV/LDT/MDPV/HDV (Chassis cert) **FEDERAL (\$32,678)**
☐ HDV EVAP-ONLY (\$511)  
☐ LDV/LDT/MDPV/HDV (Chassis cert) **CAL-ONLY (\$16,899)**
☐ HDE CALIF-ONLY (\$511)  
☐ HDE (Engine Dyno cert) **FEDERAL (\$42,506)**
☐ MOTORCYCLE (\$1,210)  
☐ LD/MDPV/HDV ICI (\$53,639)

EPA standard family or test group name: 

D	M	B	X	V	0	3	.	0	U	2	B
---	---	---	---	---	---	---	---	---	---	---	---

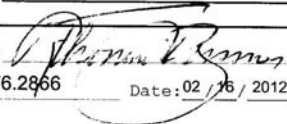
Amount paid (U.S. Funds Only): \$ 

32,678.00
-----------

Enter the check number, or the statement "WIRE" or "ACH": 

WIRE
------

**Reduced Fee Section (40 CFR §1027.120)**  
 Reduced fee calculation (minimum initial payment \$750): Total number of vehicles/units covered: \_\_\_\_\_  
 Aggregate retail sales price of the vehicles/units: \$ \_\_\_\_\_ x 1% = \$ \_\_\_\_\_  
 Check box if an Independent Commercial Importer: ☐ List the VIN of imported vehicles/engines below:


Company Representative: R-Thomas Brunner Signature:   
 Title: Manager, VCA Dept. Phone/Fax: 201.573.2622 / 201.476.2866 Date: 02/26/2012  
 E-mail Address: r-thomas.brunner@mbusa.com

**Submission of payments and forms:**  
 (1) Online: Forms may be found and submitted with or without payments online at [www.Pay.gov](http://www.Pay.gov).  
 (2) By mail: For check payments only, send checks and this form to:

**Environmental Protection Agency**  
**Motor Vehicle and Engine Compliance Program**  
 P.O. Box 979032  
 St. Louis, MO 63197-9000

(3) Transmit offline Wire payments to the New York Federal Reserve Bank. (See Instructions, p.2)  
 (4) Transmit offline ACH payments to the Federal Reserve Bank of Cleveland. (Instructions, p.2)  
 (5) Forms not submitted under (1) and (2) above can be sent as email attachments to [Fees@epa.gov](mailto:Fees@epa.gov).  
 Forms and payments sent in ways other than the above may be delayed or ineffective. See the Instructions for sending checks and forms by private mail service (e.g., Federal Express).

The public reporting and recordkeeping burden for this collection of information is estimated to average 18 minutes per response. Send comments on EPA's need for this information, the accuracy of the provided burden estimate, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques, to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., N.W., Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed Form 3520-29 to this address.

This form expires: 1/1/2013

 Mercedes-Benz	<b>US</b>	<b>MY 2013</b>	<b>Application for Certification</b>	Issue Date	Rev Date	<b>DMBXV03.0U2B</b>
		<b>Part 1</b>	<b>S-14: Request for Certificate</b>	Aug-20-12		Page: 23

S-14-04: Approval Letters low ash oil



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
**NATIONAL VEHICLE AND FUEL EMISSIONS LABORATORY**  
 2565 PLYMOUTH ROAD  
 ANN ARBOR, MICHIGAN 48105-2498

OFFICE OF  
AIR AND RADIATION

September 27, 2005

**RECEIVED**

**OCT 07 2005**

**R. R. MODLIN**


Mr. Reginald Modlin  
 Director, Environmental and Energy Planning  
 DaimlerChrysler Corporation  
 800 Chrysler Drive  
 Auburn Hills, MI 48326-2757  
 CIMS 482-00-71

Mr. Modlin,

Thank you for your August 30, 2005 letter regarding DaimlerChrysler's desire to use low ash content engine oil to certify your clean light-duty diesel vehicles. As you correctly noted in your letter, EPA Guidance Documents CCD-01-12 (Use of GF-3 Engine Oil in Test Vehicles) and CCD-04-07 (Use of GF-4 Engine Oil in Certification and Fuel Economy Test Vehicles) are the basis for how EPA determines how to deal with unique engine oils with respect to certification and fuel economy testing.

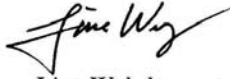
EPA agrees that the use of low ash content engine oil (0.8%) will be beneficial to allowing new advanced particulate filter systems to meet their full potential for performing over the full useful life of the vehicles. Our primary concern with manufacturer's request to certify with unique engine oils is that these oils be readily available to consumers. We realize that the number of light-duty diesel vehicles in the U.S. is low and that the demand for clean light-duty diesel engine oil is also low and that it will be initially difficult to establish widespread distribution of low ash oil.

The plan proposed by DaimlerChrysler for the use and certification of low ash content engine oil, which includes the availability of the low ash engine oil at the 4,300 DaimlerChrysler dealerships in the U.S., the investigation of the potential for making the engine oil available through automotive aftermarket retail chains (Auto Zone, NAPA, etc.) through DaimlerChrysler's MOPAR aftermarket organization, and the continued work with oil manufacturers to market the oil through their outlets and promote the use of the oil at "quick oil change" facilities, appears to be reasonable. Therefore, we are approving DaimlerChrysler's plan to use low ash content engine oil for the certification of light-duty diesel vehicles.

 Mercedes-Benz	<b>US</b>	<b>MY 2013</b>	<b>Application for Certification</b>	Issue Date	Rev Date	<b>DMBXV03.0U2B</b>
		<b>Part 1</b>	<b>S-15: HEV-specific data (if applicable)</b>	Aug-20-12		Page: 24

Please let me know if you any additional questions. You can contact me at 734-214-4286.

Sincerely,



Linc Wehrly  
Compliance and Innovative Strategies Division  
Office of Transportation and Air Quality

### **S-15: HEV-specific data (if applicable)**

No Hybrid Electric Vehicles (HEV) is part of this test group.